## 

$$f(x) = (x-1)e^{x} - \frac{a}{2}x^{2}$$

olooo f(x) oooooo xooooooooo aoooooooo

$$0000000000 f(x) = xe^x - ax_0$$

$$0000 f(x) 0000 X 00000 (t0) 0$$

$$\begin{cases} f(t) = 0 \\ f(t) = 0 \end{cases} \begin{cases} (t-1)\vec{e} - \frac{a}{2}t = 0 \\ t\vec{e} - at = 0 \end{cases}$$

$$0 t \neq 0 e = a > 0$$

$$0 t \neq 0 e = a > 0$$

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$$0 t \neq 0 e = a > 0$$

$$000 \stackrel{a}{=} 000000 \stackrel{f(x)}{=} 0000000 \stackrel{X}{=} 0000$$

$$\Leftrightarrow f(X_1 + X_2) + (X_1 + X_2) > f(X_1 - X_2) + (X_1 - X_2)$$

$$g(x) = f(x) + X_{0000000} g(x + X_2) > g(x - X_2)$$

$$\therefore g'(x) = xe^x - ax + 1.0 R_{\square \square \square \square \square}$$

$$\therefore g(x)..0$$

 $000000 a = 3_{00} Xe^{x} - 3X + 1.0_{0000}$ 

$$\ \, \underset{X<\ 0\ \square\square}{\square}\ \mathcal{H}(x)<0\ \square\square\ X>0\ \square\square\ \mathcal{H}(x)>0\ \square$$

$$\therefore H(X)_{min} = 0 \quad \forall X \in R_{\square} e^{X} ... X+1_{\square}$$

$$0000 X.0_{00} Xe^{y}...X^{2} + X_{0} Xe^{y} - 3x + 1.X^{2} - 2x + 1 = (x - 1)^{2}...0_{0}$$

 $000 \, ^{a} 0000000 \, 30$ 

 $200200 \bullet 000000000 g(x) = x - aln x_0$ 

01000 <sup>g(x)</sup> 00000

$$200 \stackrel{a>2}{=} 200 \stackrel{f(x)}{=} \frac{1}{x} - g(x)$$

$$00000010 g(x) = X - aln x_{00000} (0, +\infty)_{0} g'(x) = 1 - \frac{a}{X} = \frac{X - a}{X}_{0}$$

$$(1) \ \, \underline{\quad \, } \ \, \partial_{x}, \ 0 \ \, \underline{\quad \, } \ \, \mathcal{G}(x)...0 \ \, \underline{\quad \, } \ \, \mathcal{G}(x) \ \, \underline{\quad \, } \ \, (0,+\infty) \ \, \underline{\quad \, } \ \,$$

$$(ii)_{\,\,\square\,\, a>0\,\,\square\square\,\,} x\in (0,a)_{\,\,\square\square\,\,} \mathcal{G}(x)<0_{\,\,\square}$$

00002000 
$$f(x)$$
 00000000  $a > 2$ 0

$$f(x) = -\frac{x^2 - ax + 1}{x^2}$$

$$0 \qquad f(x) \qquad 0 \qquad 0 \qquad X_{1} \qquad X_{2} \qquad x^{2} - ax + 1 = 0$$

$$\frac{f(x) - f(x_2)}{x - x_2} = \frac{1}{x_1 - x_2} - 1 + a \frac{\ln x_1 - \ln x_2}{x - x_2}$$

$$= -2 + a \frac{h x_1 - h x_2}{x_1 - x_2} = -2 + a \frac{-2h x_2}{\frac{1}{x_2} - x_2}$$

$$\frac{f(x_1) - f(x_2)}{x_1 - x_2} < a - 2 \frac{1}{x_2} - x_2 + 2\ln x_2 < 0$$

$$h(x) = \frac{1}{x} - x + 2\ln x(x > 1)$$

$$h'(x) = -\frac{(x-1)^2}{x^2} < 0$$

$$\frac{f(x_1) - f(x_2)}{x_1 - x_2} < a - 2$$

$$3002020 \cdot 0000000 f(x) = (a+1)lnx + ax^2 + 1_0$$

0100000 <sup>f(x)</sup>00000

$$00000000 f(x) 00000 (0 + \infty). f(x) = \frac{a+1}{x} + 2ax = \frac{2ax^2 + a+1}{x}$$

$$0 = a.0 \quad 0 \quad f(x) > 0 \quad 0 \quad f(x) = (0, +\infty) \quad 0 = 0$$

$$-1 < a < 0 \longrightarrow f(x) = 0 \longrightarrow x = \sqrt{-\frac{a+1}{2a}}$$

$$\sum_{x \in (0, \sqrt{-\frac{a+1}{2a}})} \int_{x \in (x)} f(x) > 0$$

$$\int f(x) \int (0, \sqrt{-\frac{a+1}{2a}}) \int (\sqrt{-\frac{a+1}{2a}}, +\infty)$$

$$g(x) = f(x) + 4x \frac{g(x)}{x} = \frac{a+1}{x} + 2ax + 4$$

① 
$$000 g(x) (0,+\infty) 000000 \frac{a+1}{x} + 2ax + 4,, 0$$

$$a_{11} \frac{-4x-1}{2x^2+1} = \frac{(2x-1)^2 - 4x^2 - 2}{2x^2+1} = \frac{(2x-1)^2}{2x^2+1} - 2$$

$$0^{a}000000^{(-\infty}0^{-2)}001200$$

$$4002020 \, \bigcirc \bullet \, 0000000000 \, f(x) = 2lnx + \frac{m}{x} \, m > 0$$

$$0200000 g(x) = f(x) - x_{00000}$$

$$0300^{\phantom{0}} \stackrel{m.1}{00000000} \stackrel{b>}{00} \stackrel{a>0}{00} \stackrel{f(b)-\phantom{0}f(a)}{\phantom{0}b-\phantom{0}a} < 1$$

$$f(x) = 2\ln x + \frac{e}{x} f(x) = \frac{2x - e}{x^2}$$

$$0 < m < 1_{11} - m > 0_{11} - m > 0_{12} - m > 0_{13} = \frac{-(x^{2} + \sqrt{1 - m})(x^{2} - \sqrt{1 - m})}{x^{2}} = \frac{-(x^{2} + \sqrt{1 - m})}{x^{2}} = \frac{-(x^{2} + \sqrt{1 - m})}{x^{2}} = \frac{-(x^{2} + \sqrt{1 - m})}{x$$

$$0 < x < 1 - \sqrt{1 - m_{00}} \mathcal{G}(x) < 0_{00} 1 - \sqrt{1 - m_{00}} x < 1 + \sqrt{1 - m_{00}} \mathcal{G}(x) ... 0_{00}$$

$${\scriptstyle \square}^{X.\,1+\,\sqrt{1-\,\,m}} {\scriptstyle \square\square}^{\,\,g'(x)},,\,\, {\scriptstyle 0}_{\scriptstyle \square}$$

$$0 < m < 1_{\square \square} \mathcal{G}(x) = f(x) - x_{\square}(0, 1 - \sqrt{1 - m})_{\square}[1 + \sqrt{1 - m}, +\infty)_{\square \square \square \square \square \square}$$

$$0^{[1-\sqrt{1-m},1+\sqrt{1-m})}$$

$$0020000 \, m.\, 1_{00} \, \mathcal{G}(x) = f(x) - X_0(0, +\infty)_{000000}$$

$$0000 b> a>0 \frac{f(b)-f(a)}{b-a}<1$$

$$5002020 \cdot 000000000 f(x) = x^2 - 2ax + 2(a+1)ln X_0$$

f(x) 00000000 a000000

$$200000^{-1} < a < 30000000 \xrightarrow{X_1} \underbrace{X_2 \in (0, +\infty)}_{0} \underbrace{X_1 \neq X_2}_{0} \underbrace{0} \frac{f(X_1) - f(X_2)}{X_1 - X_2} > 2$$

$$f(x) = 2x \frac{x^2 - ax + a + 1}{x}(x > 0)$$

$$\int f(x) \frac{x^2 - ax + a + 1}{x} = 0$$

$$\begin{cases} \vec{a} - 4(a+1) > 0 \\ a > 0 \\ a+1 > 0 \end{cases}$$

$$g(x) = f(x) - 2x = x^2 - 2ax + 2(a+1)In_{X^2} - 2x$$

$$g'(x) = 2x - 2(a+1) + 21 \frac{a+1}{x} ... 4 \sqrt{x! \frac{a+1}{x}} - 2(a+1) = 4\sqrt{a+1} - 2(a+1) = 2\sqrt{a+1}(2 - \sqrt{a+1})$$

$$0 - 1 < a < 3 \ 0 < \sqrt{a+1} < 2 \ 0 \ \mathcal{G}(x) > 0 \ 0 \ \mathcal{G}(x) \ 0 \ 0 \ (0, +\infty) \ 0 \ 0 \ 0 \ 0$$

$$0 < X_2 < X_{000} g(X) - g(X_2) > 0$$

$$0 < x < x_{2} = \frac{f(x) - f(x_{2})}{x - x_{2}} > 2$$

$$0100 a = 200000 y = f(x) 0 (10 f_{010}) 0000000$$

## 

$$000100 a = 2_{00} f(x) = 3lnx + 2x^{2} + 1_{0} f(x) = \frac{3}{x} + 4x$$

$$\stackrel{.}{.} f_{\boxed{1} \boxed{1}} = 3_{\boxed{1}} f_{\boxed{1} \boxed{1}} = 7_{\boxed{1}}$$

$$\therefore f(x)_{\square}(0,+\infty)_{\square\square\square\square\square\square}$$

$$g(x) = f(x) + 4x$$

$$g'(x) = \frac{a+1}{x} + 2ax + 4 = \frac{2ax^2 + 4x + a + 1}{x}$$

$$\bigcirc \mathcal{G}(x) \bigcirc (0,+\infty) \bigcirc \bigcirc \mathcal{G}(x), \ \mathcal{G}(x_2) \bigcirc \mathcal{G}(x) + 4x, \ f(x_2) + 4x_2 \bigcirc \bigcirc \mathcal{G}(x_2) \bigcirc \mathcal{G}(x_$$

$$200000 \stackrel{X_1}{\longrightarrow} X_2 \in (0, \frac{1}{e}] \quad | \frac{f(X_1) - f(X_2)}{X_1^2 - X_2^2} | > \frac{k}{X_1^2 \cup X_2^2}$$

$$f(x) = \frac{-2 - 2a + 4hx}{x^{2}} {}_{\square}(x > 0) {}_{\square}$$

$$0 (1_0 f_{010})_{0000000} y = -4x + 1_{000}$$

$$\int_{0}^{1} f_{010} = -4_{00} \frac{-2 - 2a}{1} = -4_{000} a = 1_{0}$$

$$f(x) = \frac{-2 - 2a + 4hx}{x^{2}} = \frac{-4 + 4hx}{x^{2}} = 0$$

$$\square\square X = e_{\square}$$

$$00^{f(x)}0^{(e+\infty)}000000$$

$$\therefore f(x)_{\square X=e_{\square \square \square \square \square \square \square \square \square}} f(e) = -\frac{1}{e^e}_{\square \square 6 \square \square}$$

$$g(\frac{1}{x^2}) = f(x)$$

$$g(x) = x + x \ln x$$

$$x \in [\mathcal{E}_{\square} + \infty) g(x) = 2 + \ln x$$

$$\square^{X \in [\vec{\mathcal{C}}_{\square}^{+\infty})} \square \square^{\vec{\mathcal{C}}(\vec{x})} = 2 + hx.4 \square$$

$$\left| \frac{f(x) - f(x_2)}{\frac{1}{x_1^2} - \frac{1}{x_2^2}} \right| \ge 4$$

$$\ldots \otimes^{k_{000000}} (- \infty \otimes^{4]} \otimes 12 \otimes 1$$

8002020 
$$\bullet$$
 00000000  $f(x) = alnx + x^b(a \neq 0)$ 

$$200 a + b = 0 b > 0 0 0 0 X 0 X_0 = [\frac{1}{e_0} e]_{00} |f(x) - f(x_2)|_{00} e^{-2x_2}$$

f(x) 00000  $(0, +\infty)$ 

$$b = 2 \prod_{x \in A} f(x) = alnx + x^{2} (a \neq 0) \prod_{x \in A} f(x) = \frac{a}{x} + 2x = \frac{2x^{2} + a}{x}$$

$$X \rightarrow 0$$
  $f(X) \rightarrow -\infty$   $X \rightarrow +\infty$   $f(X) \rightarrow +\infty$   $f(X) \rightarrow +\infty$ 

$$2 \cdot a < 0 \cdot b = 0 \cdot A = \sqrt{-\frac{a}{2}} \cdot x = -\sqrt{-\frac{a}{2}} \cdot a = 0$$

$$X \in (0, \sqrt{-\frac{a}{2}}) \prod_{x \in \mathbb{Z}} f(x) < 0 \prod_{x \in \mathbb{Z}} X \in (\sqrt{-\frac{a}{2}} \prod_{x \in \mathbb{Z}} f(x) > 0)$$

$$\int f(x) = (0, \sqrt{-\frac{a}{2}}) = (\sqrt{-\frac{a}{2}} + \infty) = 0$$

$$f(x) = a \ln \sqrt{-\frac{a}{2}} - \frac{a}{2} = 0$$

$$\therefore$$
 00  $a_{0000000}$  { $a|a=-2e_{00}a>0$ }

$$0 \quad a+b=0 \quad b>0 \quad f(x)=-bhx+x^b \quad f(x)=\frac{b(x^b-1)}{x}$$

$$0 < X < 1 \longrightarrow f(X) < 0 \longrightarrow X > 1 \longrightarrow f(X) > 0$$

$$f(x) = f(x) =$$

 $h_{\Box b \Box} = 2b^2 + (1-3a)b-1-3a, 0_{\Box \Box \Box} a.1_{\Box \Box \Box}$ 

$$\therefore \square \square \xrightarrow{f(x)} \square \square \square [-1 \square^0] \square \square \square \square \square$$

$$\mathbb{I} \quad \chi < \chi_{\square} \mid g(\chi) - g(\chi) \mid < f(\chi) - f(\chi)$$

$$\therefore f(\underline{x}) - f(\underline{x}) < g(\underline{x}) - g(\underline{x}) < f(\underline{x}) - f(\underline{x})$$

$$\therefore p(x) = f(x) + g(x) \underset{\square}{\circ} q(x) = f(x) - g(x) \underset{\square}{\circ} [-1 \underset{\square}{\circ} 0]$$

$$\therefore k$$
-  $6.0_{\square\square}k.6_{\square}$ 

$$10002020 \bullet 00000000 f(x) = hx - a - 2hx + x_0 a.2$$

$$0100 a = 200 f(x) 000000$$

$$200000 \forall X_{\square} X_{\square} \in [3_{\square} 9]_{\square} \mid f(X) - f(X_{\square}) \mid_{"} 2 + In3_{\square}$$

$$f(x) = \ln x - 2 - 2\ln x + x = \begin{cases} x - 3\ln x + 2, 0 < x, \ \vec{e} \\ x - \ln x - 2, x > \vec{e} \end{cases}$$

$$0 < X, \vec{e} = 1 - \frac{3}{X} = \frac{X - 3}{X} = \frac{(0,3)}{(0,3)} = (0,3) =$$

$$\int f(x)_{nm} = f_{030} = 5 - 3hB > 0_{0000000}$$

$$\int_{X} X > e^{x} \int_{X} f(x) = 1 - \frac{1}{X} = \frac{X - 1}{X} \int_{X} f(x) \int_{X} (e^{x} \int_{X} + \infty) \int_{X} f(x) \int_{X} (e^{x} \int_{X} + \infty) \int_{X} f(x) \int_{X}$$

$$a = 2$$

$$f(x) = \begin{cases} x-3\ln x + a, x \in [3, e^x] \\ x-\ln x - a, x \in (e^x, 9] \end{cases}$$

$$3, X, \mathcal{E} \cap f(X) = 1 - \frac{3}{X} = \frac{X - 3}{X} \cdot \cdot \cdot 0$$

$$e^{y} < \chi, 9 \qquad f(x) = 1 - \frac{1}{x} = \frac{x - 1}{x} > 0 \qquad f(x) = 0$$

$$\therefore f(x)_{mn} = f_{\boxed{9}} = 9 - h \cdot 9 - a_{\boxed{1}} f(x)_{mn} = f_{\boxed{3}} = 3 - 3h \cdot 8 + a_{\boxed{1}}$$

:. 
$$f(x)_{min} - f(x)_{min} = 6 + ln 3 - 2a_n 2 + ln B_{\Box}$$

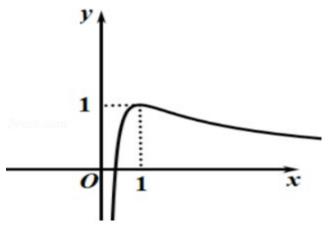
$$\therefore f(x)_{mx} = f_{\boxed{9}} = 9 - 3h9 + a_{\boxed{1}} f(x)_{mx} = f_{\boxed{3}} = 3 - 3h8 + a_{\boxed{1}}$$

$$f(x)_{min} = 6 - 3hB < 2 + hB_{\square}$$

$$f(x) = \frac{\ln x}{x^2}$$

$$f(x) > 0 \Rightarrow 0 < x < 1$$

$$f(x) < 0 \Rightarrow x > 1$$



$$\therefore 000 (t, t + \frac{2}{3}), t > 0$$

$$0000000 f(x)$$

$$\int_{1}^{1} 1 < t + \frac{2}{3}$$

$$f(t) = \frac{1 + \ln t}{t} < 0 \qquad \frac{1}{3} < t < \frac{1}{e_0}$$

020001000000 
$$f(x)$$
  $_{\Box}[\vec{e}_{\Box}^{+\infty})$  000000

$$f(X_2) - \frac{k}{X_2} ... f(X_l) - \frac{k}{X_l}$$

$$F(x) = f(x) - \frac{k}{x} = \frac{1 + \ln x}{x} - \frac{k}{x}$$

$$F(x) = f(x) - \frac{k}{x} \operatorname{l}[\vec{e}_{\square}^{+\infty}]$$

$$F(\vec{x}) = \frac{k - \ln x}{\vec{x}}, 0 \quad 0 \quad 0 \quad 0 \quad 0$$

$$\square^{k_n \ln x} \square^{[\vec{\mathcal{C}}_\square^{+\infty})}$$
 00000

$$0000 \stackrel{X \in \left[\vec{\mathcal{C}}_{0}^{+\infty}\right)}{=} 00 \ln X 00000 \ln \vec{\mathcal{C}} = 2_{0}$$

$$000 k_{000000} (-\infty_0^2)_0$$

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